

Curriculum Vitae



personal informations

name and surname
Barbara Federica Scremin
addresse
Quartiere Vittorio Veneto, 36; 36061 Bassano del Grappa (VI), Italia
mobile
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E-Mails
scremin@iom.cnr.it, barbara.scremin@cnr.it, barbarafscremin@gmail.com
skype
barbarafedericascremin
nationality
Italian
bith date
01/06/1971
place of birth
Bassano del Grappa, (VI), Italia
fiscal code
SCRBBR71H41A703Z

work experiences

Date
position and occupation

June 2017-today
Researcher CNR National Research Council of Italy, IOM-Materials Foundry institute

- SERS-UV (Surface enhanced Raman scattering in the ultraviolet region of electromagnetic spectrum) with Pt, Rh, Pd...prepared by infrared pulsed laser ablation: computational and experimental work, in collaboration with the chemistry department of University of Padova (Prof. Moreno Meneghetti), la beamline IUVS of Elettra Sincrotrone di Trieste (Dr. Francesco D'Amico) and IOM analytics laboratory XPS-UPS (Dr.ssa Cinzia Cepek, Prof. Alberto Morgante).
- Free topic Research on free time:
 - 1-Christian Theology and Religions (exegetes and hermeneutical of apocrypha texts) (2019-2023).
 - 1-Neuro Linguistic musical programming for inclusion (2023).
 - 3-Scientific cuisine (2024).
 - 4-The techniques of meditation (Christian and Oriental), theory and practice (2024-)
 - 5-The case study of Vincent Van Gogh: life and art (late 2014-)

date
position and occupation

16/02/2009 – June 2017
CNR-NNL-National Nanotechnology Laboratory, Lecce, University of Padova:

- Characterization and compositional of materials by optical spectroscopy (UV-VIS, micro-Raman, IR) and integration with results from other techniques (TEM, XRD); studies on titania nanoparticles and modified titania nanoparticles. TEM data analysis.
- Compositional identification on microsamples work of arts by micro-Raman and study of techniques and materials of cultural heritage.

name and address

Consiglio Nazionale delle Ricerche, Piazzale Aldo Moro, 7, 00185 Roma www.cnr.it,

www.nnl.it

research

	Date position and occupation principal activities and responsibilities	15/09/2003 - 15/02/2009 researcher INFM-National Institute for the Physics of Matter <ul style="list-style-type: none"> ■ Nonlinear optical properties (nonlinear refractive index and absorption coefficient) of noble metal nanoclusters and their alloys in silica (by sputtering and ionic implant), luminescence of Lanthanide in sol gel matrix ■ "Cultore della materia" ("Expert of the field") General and Experimental Physics, participation in exams committees ■ Research & development on the instrumental and experimental apparatus of Z-Scan, on laser sources and on the data-acquisition system and data analysis. Laboratory NNL INFM-CNR in Lecce: <ul style="list-style-type: none"> ■ Study and reflection on Safety and Hazards in research. Toxicology. ■ Participation to instruction and discussion on laboratory activities on dye sensitized solar cells – nondestructive identifications.
	name and address Sector	INFM-CNR Corso Perrone, 24, 16152 Genova www.infm.it , www.unive.it Research and education
	Date position and occupation principal activities and responsibilities	Gennaio 2001 - 14 Settembre 2003 Assegnista di Ricerca post-doc Quantum Electronics Laboratory: <ul style="list-style-type: none"> ■ Feasibility studies for the implementation of the laser source in use (ring cavity home made Nd:Glass laser) in the passive mode locking mode (SESAMs, Thin films). ■ Measure and determination of nonlinear optical properties on nanometric metal nanoaggregates in glass (Z-Scan-wavfront distortions) prepared by ionic implant by Dipartimento di Fisica dell'Università di Padova (Prof. Mazzoldi) and by Sputtering (University Ca' Foscari of Venice, Profs. Giancarlo Battaglin, Elti Cattaruzza).
	name and address Sector	Università Ca' Foscari di Venezia, Dipartimento di Chimica Fisica Calle Larga S. Marta Dorsoduro, 2137, 30123 Venezia www.unive.it Research and education
Activity not relevant for the research sector		<ul style="list-style-type: none"> ■ Humble works (waitress on weekends and holidays from 18 years old to 26, entertainer of groups for the AULSS7-social sector) motivation: a bit of economic independence from family, form me mental independence. ■ Caregiving (2000-2016 father with Parkinson, Alzheimer and diabetic foot) ■ Teaching activity of science in a scientific lyceum, mathematics and science in a middle school (during the post doc)
Instruction	Date Title or qualification Main Theme	August 1997 - March 2001 PhD, philosopiae doctor Tesis: "Proprietà ottiche non lineari di aggregati a trasferimento di carica" (Nonlinear optical properties of charge transfer nanoaggregates) Università degli Studi di Padova (Dipartimento di Chimica Fisica) Via 8 Febbraio, 2, 35122 Padova www.unipd.it
Name and type of educational organization	Date Title or qualification Main Theme	1991 - 1997 Laurea in Chimica 106/110 (Degree in Chemistry) Tesis: "Indagine mediante spettroscopia Raman Risonante su aggregati del TTF radicale catione in matrice polimerica" (Investigation by Resonant Raman spectroscopy of TTF radical cation in polymeric matrix) Università degli Studi di Padova (Dipartimento di Chimica Fisica) Via 8 Febbraio, 2, 35122 Padova www.unipd.it
	Date	1985 -1991

Title or qualification Name and type of educational organization	Maturità scientifica Liceo Scientifico Jacopo Da Ponte Via S. Tommaso d'Aquino, 12, 36061 Bassano del Grappa (VI) www.liceodaponte.it
Personals skills and abilities	
Mother Tongue Other Languages	Italian English (good) French (2 years course, intermediate level) Russian (1-year course, a little) Latin (5 years lyceum) German (1 year, a little)
Social skills and abilities	Good attitude to work in team and multidisciplinary (developed in the research activity where interdisciplinary dialog is fundamental) Team and cooperation spirit, sensibility towards persons and nature (developed in Agesci -Cristian- scouting) Ability to live together and to work in multicultural (developed during courses at the Abdus Salam international Centre for Theoretical Physics in Trieste)
Organizational skills and abilities	Good organizational skills (developed in scouting and experimental work)
Informatic skills and abilities	Software: office, Gimp, Clip studio paint (image processing), QCAD, iCAD-Mac, (Computer Aided Design), MATLAB, Origin, Igor, ImageJ (data analysis), LabVIEW (experiment lab automation), Endnote (bibliographies), Mac OSX operative systems
Artistic skills and abilities	Photography and aesthetic sense (developed in a photographic group and as second photographer in Gianni Guidolin Studio, Bassano del Grappa (VI) and by personal study and interest. Drawing, multi-technical (for personal interest and to push on forward creativity)
<u>Other skills and competencies</u>	Good interpersonal communication skills (developed as entertainer for AULSS7, and personal interest – Self Mutual Help course, assertive communication course) Course on “Psychoeducation for young people” Dr.ssa Fusco, CSM (Center for Mental Health) Bassano del Grappa Participation to a cognitive-behavioral group of psychotherapy, 1 year (Dr. Caneva, CSM Bassano del Grappa)
Driving License	Personal cognitive-behavioral psychotherapy, 2 years- (Dr. Caneva, Dr. Marra)
Additional Information	B
	Peer Review Publications
	1. C. Ferrante, D. Pedron, R. Pilot, B. F. Scremen, R. Bozio, “Ultrafast relaxation dynamics of the CT state of (TTF+)2 radical dimers embedded in a PMMA polymer film” Recent Advances in Ultrafast Spectroscopy: Proceedings of the XII UPS Conference, (LENS 2001). Edited by Salvatore Califano, Paolo Foggi and Roberto Righini, Fondazione Carlo Marchi Quaderni 21, Leo S.Olschki, Firenze 2001.
	2. E. Cattaruzza, F. D'Acapito, C. de Julian Fernandez, A. De Lorenzi, F. Gonella, G. Mattei, C. Maurizio, P. Mazzoldi, S. Padovani, B. F. Scremen, F. Zontone, “Sequential ion implantation of copper and cobalt in silica glass: a study by synchrotron radiation techniques”, Nuclear Instruments and Methods B, 191 (2002) 406-410.

3. R. Polloni, B. F. Scremenin, P. Calvelli, E. Cattaruzza,, G. Battaglin, G. Mattei, "Metal nanoparticle silica composites: z-scan determination of nonlinear refractive index", *Journal of Non Crystalline Solids*, 332, (2003), 300-305.
4. G. Battaglin, P. Calvelli, E. Cattaruzza, F. Gonella , R. Polloni, B. F. Scremenin, G. Mattei, C. Maurizio, P. Mazzoldi, S. Padovani, C. Sada, F. D'Acapito, "Fast nonlinear refractive index of pure and alloy metallic nanoclusters in silica Glass", *Composites Science and Technology*, 63, (2003), 1203- 1208.
5. S. Bucella, P. Riello, B. F. Scremenin, P. Calvelli, R. Polloni, A. Speghini, M. Bettinelli and A. Benedetti "Synthesis and luminescence properties of ZrO₂ and ZrO₂/SiO₂ composites incorporating Eu(III)-phenanthroline complex prepared by a catalyst-free sol-gel process" *Optical Materials*, 27, (2004), 249-255.
6. G. Battaglin, E. Cattaruzza, F. Gonella, R. Polloni, B. F. Scremenin, G. Mattei, P. Mazzoldi, C. Sada, "Structural and optical properties of Cu:silica nanocomposite films prepared by co-sputtering deposition", *Applied Surface Science*, 226, (2004), 52-56.
7. E. Cattaruzza, G. Battaglin, P. Canton, C. de Julian Fernández, M. Ferroni, F. Gonella, C. Maurizio, P. Riello, C. Sada, C. Sangregorio, B. F. Scremenin "Radiofrequency magnetron co-sputtering deposition synthesis of Co-based nanocomposite glasses for optical and magnetic applications", *Applied Surface Science*, 226, (2004), 62-67.
8. G. Battaglin, V. Bello, E. Cattaruzza, F. Gonella , G. Mattei, P. Mazzoldi, R. Polloni, C. Sada, B. F. Scremenin, "RF magnetron co-sputtering deposition of Cu-based nanocomposite silica films for optical applications", *Journal of Non Crystalline Solids*, 345, (2004), 689-693.
9. E. Cattaruzza, G. Battaglin, F. Gonella, G. Mattei, P. Mazzoldi, R. Polloni and B.F. Scremenin "Fast third-order optical nonlinearities in metal alloy nanocluster composite glass: negative sign of the nonlinear refractive index" *Applied Surface Science*, 247, (2005), 390-395.
10. G. Mattei, G. Battaglin, E. Cattaruzza, C. Maurizio, P. Mazzoldi, C. Sada and B.F. Scremenin "Synthesis by co-sputtering of Au-Cu alloy nanoclusters in silica" *Journal of Non-Crystalline Solids*, 353, (2007), 697-702.
11. E. Cattaruzza, G. Battaglin, F. Gonella, R. Polloni, B. F. Scremenin, G. Mattei, P. Mazzoldi, C. Sada, "Au-Cu nanoparticles in silica glass as composite material for photonic applications", *Appl. Surf. Sci.*, 254, 1017-1021, (2007).
12. H. Xu, R. A. Picca, Luisa De Marco, C. Carlucci, A. Scarscia, P. Papadia, B. F. Scremenin, E. Carlino, C. Giannini, C. Malitesta, M. Mazzeo, G. Gigli, G. Ciccarella, "Nonhydrolytic convenient route to Boron doped TiO₂, nanocrystals", *Eur. J. Inorg. Chem.* (2012) DOI: 10.1002/ejic.201200842
13. M.R. Belviso, C. Giannini, E. Carlino, B. F. Scremenin, P. D. Cozzoli, "Nonaqueous Synthesis of Colloidal TiO₂-B Nanocrystals with mixed linear and branched topologies"
14. B. F. Scremenin, M. R. Belviso, D. Altamura, C. Giannini, P. D. Cozzoli, "Comparative Raman Study of Organic-free and Surfactant-capped Rod-shaped anatase TiO₂ Nanocrystals, *Science of Advanced Materials*, 05 (2014) 6 (5).
15. H. Xu, C. Carlucci, B. F. Scremenin, C. Giannini, T. Sibillano, A. Scarscia, A. L. Capodilupo, G. Gigli, G. Ciccarella, "Synthesis of Ultrafine Anatase Titanium Dioxide Nanocrystals by the Microwave- Solvothermal Method", *Journal of Nanoengineering and Nanomanufacturing*, 4 (2014) 1-5.

16. C. Carlucci, H. Xu, B. F. Scremin, C. Giannini, D. Altamura, E. Carlino, V. Videtta, F. Conciauro, G. Gigli, G. Ciccarella, "Selective Synthesis of TiO₂, Nanocrystals with Morphology Control with the Microwave-Solvothermal Method"- Cryst. Eng. Comm. 12, (2013), 16.
17. H. Xu, C. Carlucci, B. F. Scremin, E. Carlino, G. Gigli, G. Ciccarella, "Controllable One- Pot Synthesis of Anatase TiO₂ Nanorods with the Microwave-Solvothermal Method", Science of Advanced Materials, 08 (2014), 6(8).
18. C. Carlucci, B. F. Scremin, T. Sibillano, C. Giannini, E. Filippo, P. Perulli, A. L. Capodilupo, G. A. Corrente, G. Ciccarella, "Microwave-assisted synthesis of Boron-modified TiO₂ nanocrystals", Inorganics, 06 (2014), 6(5).
19. C. Carlucci, F. Conciauro, B. F. Scremin, A. G. Antico, M. Muscogiuri, T. Sibillano, C. Giannini, E. Filippo, C. Lorusso, P. M. Congedo, G. Ciccarella, "Properties of aluminosilicate refractories with synthesized Boron-modified TiO₂ nanocrystals" Nanomaterials and Nanotechnology, 03, (2015), 5(1)
20. C. Lorusso, V. Vergaro, A. Monteduro, A. Saracino, G. Ciccarella, P. M. Congedo, B. F. Scremin, "Characterization of polyurethane foam added with synthesized acetic and oleic acid –modified TiO₂ nanocrystals" Nanomaterials and Nanotechnology, 09, (2015), 5(1).
21. F. Conciauro, E. Filippo, C. Carlucci, V. Vergaro, F. Baldassarre, R. D'Amato, G. Terranova, C. Lorusso, P. M. Congedo, B. F. Scremin, G. Ciccarella, "Properties of nanocrystals-formulated aluminosilicates bricks" Nanomaterials and Nanotechnology, 10 (2015), 5(1).
22. V. Vergaro, C. Carlucci, M. Cascione, C. Lorusso, F. Conciauro, B. F. Scremin, P. M. Congedo, G. Cannazza, C. Citti, G. Ciccarella, "Interaction between human serum albumin and different anatase TiO₂ nanoparticles: a nano-bio interface study" Nanomaterials and nanotechnology, 10 (2015) 5 (1).
23. E. Filippo, A. L. Capodilupo, C. Carlucci, P. Perulli, F. Conciauro, G. A. Corrente, B. F. Scremin, G. Gigli, G. Ciccarella, "Efficient, green non-aqueous microwave-assisted synthesis of anatase TiO₂ and Pt loaded nanorods with high photocatalytic performances" Nanomaterials and nanotechnology, 10 (2015).
24. BF Scremin, Tetrathiafulvalene radical cation (TTF⁺) Charge Transfer aggregates included in PMMA matrix, a Resonance Raman Study, arXiv preprint arXiv:1709.01823 (2017)
25. V Vergaro, E Carata, F Baldassarre, E Panzarini, L Dini, C Carlucci, ..., Scalable production of calcite nanocrystals by atomization process: Synthesis, characterization and biological interactions study, Advanced Powder Technology 28 (10), 2445-2455 (2017)
26. A Fiore, G Morello, BF Scremin, Raman and photoluminescence spectra of ZnTe/CdSe and ZnTe/CdTe tetrapod shaped nano-hetero structures Superlattices and Microstructures 113, 143-146 (2018)
27. BF Scremin, Nonlinear absorption of tetrathiafulvalene radical cation (TTF⁺) based charge transfer (CT) aggregates in PMMA Organic Electronics 61, 329-333 (2018)
28. BF Scremin, Raman study of a work of art fragment Vibrational Spectroscopy 99, 162-166 (2018)

1999

"Seminario Nazionale di Chimica Fisica 1999"
(poster-presentation) Villa Gualino (Torino-Italy) 20-25 June 1999. (mi è stata conferita una borsa di studio per parteciparvi)

2000

"Winter College on Optics and Photonics" & "Optical Design and Optimization" training course (seminar presentation) ICTP (Trieste-Italy) 7-25 February 2000.
ICTP-ICS-UNIDO (Trieste-Italy) 28 February -3 March 2000.

"Research Workshop on Graph Theory and Statistical Physics" ICTP -(Trieste-Italy)
22-25 May 2000.

"Dottorato, innovazione, lavoro: il valore della Ricerca"

Conference of ADI-Associazione Dottorandi e Dottori di Ricerca Italiani, Forte dei Marmi, Italy, October 2000

2001

"Winter School on Laser Spectroscopy and Applications" &"Training Course on Applied Spectroscopy and Instrumentation" ICTP (Trieste-Italy) 19 February –2 March 2001
ICTP-ICS-UNIDO (Trieste-Italy) 5-9 March 2001.

"CLEO/Europe-EQEC focus meetings"

15th International Conference on Lasers and Electro optics in Europe Munich, Germany, 18-22 June 2001

2002

"Winter College On Ultrafast Non-Linear Optics" & "Training Course on Instrumentation for Ultrashort Solid State Lasers"
ICTP (Trieste-Italy) 18 February –1 March 2002.
ICTP-ICS-UNIDO (Trieste-Italy) 4-9 March 2002

"IV Symposium on SiO₂ and advanced dielectrics" Trento, Italy, 16-18 September 2002

2003

"Winter College on Biophotonics: Optical Imaging and Manipulation of Molecules and Cells" & "Training Course on Laser Based Tools for Optical Imaging in Biology and Medicine"
ICTP-ICO-OSA-SPIE-OWLS (Trieste-Italy) 10-21 February 2003.
ICTP-ICS-UNIDO (Trieste-Italy) 24-28 February 2003

2004

"Winter college on interferometry and applications in modern physics" & "Training course on design and implementation of interferometry systems" ICTP (Trieste-Italia) 2-13 Febbraio 2004.
ICTP-ICS-UNIDO (Trieste-Italy) 16-20 February 2004

"Metrology for nanotechnology" Nanotech IT-AIRI Villa Gualino (Torino-Italy) 12-13 May 2004.

"Spring College on Science at the nanoscale" ICTP (Trieste-Italy) 24 May-11 June 2004.

"Quantum Physics and Chemistry spring school QPCSS2004" Tunis, Tunisia 13-17 April 2004.

2005

"Winter College on Optics and Photonics in Nanoscience and Nanotechnology" &
"Experimental methods in nanophotonics-training course"
ICTP-ICO-OSA-SPIE-OWLS-CEI (Trieste-Italy) 7-18 February 2005

ICTP-ICS-UNIDO, (Trieste-Italy) 21-25 February 2005.

2006

"School on Mathematical Methods for Optics" ICTP-Trieste 23-27 Gennaio 2006

"Winter College on Quantum and Classical Aspects of Information Optics" ICTP – CEI-ICO-OSA-SPIE-OWLS

Directors: M.L. Calvo, P. Knight, P.Tombesi ICTP-Trieste 30 Gennaio-10 Febbraio 2006

"The Future of Science 2006, 2nd world Conference: Evolution of Matter, Life and mind" Fondazioni U. Veronesi, S. Tronchetti Provera, Cini
Fondazione Giorgio Cini, Venezia 20-23 Settembre 2006

"Scienza & Media 2006: la diffusione della Cultura Scientifica e l'Editoria" Parco Scientifico e Tecnologico di Venezia-VEGA, 28-29 Settembre 2006

2007

"Preparatory School to the Winter College on Fibre Optics, Lasers and Sensors" ICTP-Trieste 5-9 Febbraio 2007

"Winter College on Fibre Optics, Lasers and Sensors" ICTP-ICO-OSA-SPIE-EOS- OWLS-CEI

Directors: H. Fragnito, A. Clarkson, A. Mignani ICTP-Trieste 12-23 Febbraio 2007
"The Future of Science 2007, 3rd world Conference: The Energy Challenge"
Fondazioni U. Veronesi, S. Tronchetti Provera, Cini
Fondazione Giorgio Cini, Venezia 19-22 Settembre 2007

2008

"Preparatory School to the Winter College on Micro and Nano Photonics for Life Sciences" ICTP-Trieste 4-8 Febbraio 2008

"Winter College on Micro and Nano Photonics for Life Sciences" ICTP-CEI-EOS- ICO-OSA-US National Academy of Sciences-SPIE Directors: M. Bertolotti, M. Havenith, O. E. Martinez
ICTP-Trieste 11-22 Febbraio 2008

"Advanced School on Syncrotron and Free Electron Laser Sources and their Multidisciplinary Applications"

Directors: N. Binggeli, M. Kiskinova, A. Markowicz ICTP-Trieste 7-25 Aprile 2008

"The Future of Science 2008, 4th World Conference: Food and Water for Life"

Fondazioni U. Veronesi, S. Tronchetti Provera, Cini

Fondazione Giorgio Cini, Venezia 24-27 Settembre 2008

"Joint ICTP-KFAS Workshop on Nanoscience for Solar Energy Conversion" KFAS- CEI-ICMR

Directors: F. De Angelis, Md. Khaja Nazeeruddin ICTP-Trieste 27-29 Ottobre 2008

2009

"Winter college on optics in environmental science & preparatory school"
CEI-Central European Initiative; EOS-European Optical Society; ICO-International Commission for Optics; OSA-Optical Society of America; SPIE- The International Society for Optics and Photonics.

Directors: A. Consortini, R.P. Singh, S. Svanberg. Local Organizer: J. Niemela ICTP- Trieste, 26-30 January & 2-13 February

"The Future of Science 2009, 5th world Conference: The DNA revolution"
Fondazioni U. Veronesi, S. Tronchetti Provera, Cini
Fondazione Giorgio Cini, Venezia 19-22 September 2009

2010

"Winter college on optics and energy & preparatory school"
TS, ICTP, 26-30 January, 8-19 february
the International Commission for Optics (ICO), the Optical Society of America (OSA),
the International Society for Optics and Photonics (SPIE), the European Optical
Society (EOS), the Societa Italiana di Ottica e Fotonica (SIOF), the US National
Academy of Science (NAS), the Photonics Society (IEEE) and the Central European
Initiative (CEI)
Directors: V. Lakshminarayanan and G. Lanzani. Local Organizers: M. Danailov and
J. Niemela

"School on computational nanoscience"- TS, ICTP, 17-28 may Psi-k Network,
CECAM and DEMOCRITOS CNR-IOM Directors: A. Foster, N. Mazari, S. Scandolo.

Fotonica 2010- Pisa, CNR, 25-27 may

"Il ruolo emergente delle nanotecnologie nelle scienze della vita"-
Ospedali riuniti di Trieste, Facoltà di Medicina e Chirurgia, SPIN-CNR, TASC,
Università TS TS, Area Science Park,21 june 2010

VI conferenza nazionale del colore,
Gruppo nazionale del Colore SIOF-Lecce, Rettorato, 16-17 september

"The future of science 2010, Viruses: the invisible enemy" VE, Fondazione Cini, '19-
21 september

"Nanotechitaly", CNR, Veneto nanotech, AIRI-NanotechIT-VE, 20-22 october

"Laser fest 2010-50" anniversario del Laser- ICTP 12-13 november 2010

"Il laser in Italia, 50" anniversario & assemblea SIOF- FI, Rettorato, 30 november

Presentation of ECSIN-European center for the sustainable impact of
nanotechnology, Veneto Nanotech, Rovigo, 3 december

2011

"Winter college on optics in imaging science" & preparatory school-TS ICTP, 4-28
January, 31 January-11 February
The International Commission for Optics (ICO), the Optical Society of America
(OSA), the International Society for Optics and Photonics (SPIE), the European
Optical Society (EOS), the Societa' Italiana di Ottica e Fotonica (SIOF), the US
National Academy of Science (NAS), the Photonics Society (IEEE) and the Central
European Initiative (CEI)
Directors: William T. Rhodes, J.Ojeda-Castañeda, Gianluca Valentini; Local
Organisers: J. Niemela (ICTP), M. Danailov (Elettra)

School & workshop on New Trends in Quantum Dynamics and Quantum
Entanglement 14-18,21-25 February
Department of Physics of the University of Trieste, Consorzio per la Fisica of Trieste,
Italy and Institute for Quantum Directors: A. Bassi, F. Benatti, R. Floreanini.
Advisors: H. Briegel, Y. Hassouni and V. Karimipour. ICTP Local Organizer: A.
Scardicchio

Meeting of Modern Science and School Physics: College for School Teachers of Physics in ICTP-27 April-3 May
Directors: Andrey Varlamov, Boris Altshuler, Rita Serafini, Vladimir Kravtsov (Local Organiser), Minella Alarcon

Workshop on Singular Optics and its Applications to Modern Physics- TS ICTP, 30 May-3June Directors: Ebrahim Karimi; Joseph Niemela (Local Organiser)

Microfluidics for molecular imaging workshop-Pisa CNR, 7-8 July

Joint ICTP-KFAS Conference on Nanotechnology for Biological and Biomedical Applications (Nano- Bio-Med)- 10-14 October Directors: Sangeeta Kale, Samir M. Iqbal, Local Organizer: Loredana Casalis

ICTP-SISSA Workshop on New Materials for Renewable Energy- TS ICTP, 17-21 October CECAM and CNRIOM DEMOCRITOS
Directors: Stefano Fabris and Ralph Gebauer

“Nanotechnology meets clinical medicine, Molecular nanotechnology for life science applications: quantitative interatomics for diagnostics, proteomics and quantitative oncology”- FP7 ideas-Udine & CROAviano 6-8 October 2011

“2nd Conference on Systems Biology and New Sequencing Techniques” & by Introductory Lectures on “Quantitative Approaches to Biological Problems” -ICTP TS 31 October - 4 November
Organizing Committee: P. Kahlem [EBI - Cambridge], B. Mishra [NYU/Courant Institute] R. Rabada [Columbia University], G. Stolovitzky fLBM Research, USA]; Local Organizer: M. Marsili

“The future of science 2011: Mind, the essence of humanity” Fondazione Cini VE, 18-20 September

2012

“WoMeN: Workshop on nanoMedicine and Nanobiosystems”, Museo Provinciale Sigismondo Castromediano, Lecce, 6-8 September 2012.
CNR-NANO, Provincia di Lecce, Dipartimento di Matematica e Fisica “Ennio de Giorgi”, Università del Salento.

“The future of science 2012: Nanoscience Society”, Fondazione Cini, Venice, 16-18 September 2012.

2015

Corso online su terapia Gerson “healing the impossible”

2017

FisMat 2017 the Italian National Conference on Condensed Matter Physics (Including Optics, Photonics, Liquids, Soft Matter)
Held at the ICTP in Miramare (TS), 1th – 5th October, 2017

Titolo corso CNR: Gli aspetti legali e finanziari in Horizon 2020: dalla proposta alla firma del Grant agreement” (2111301.2111314)
Data corso: dal 23-11-2017 al 23-11-2017 - Aula Aula Marconi Roma, P.le Aldo Moro 7 Organizzatore: Ufficio Formazione - APRE

2018

Titolo corso: Il management dei progetti di ricerca (2294792.2294825) Data corso: dal 01-03-2018 al 01-03-2018

	<p>Winter College on Extreme Non-linear Optics, Attosecond Science and High-field Physics (smr 3184) Address: Strada Costiera, 11 I - 34151 Trieste (Italy) Room: Budinich Lecture Hall (LB) Secretary: Federica Delconte Organizer(s): Francesca Calegari (IFN-CNR, Milan - Italy and DESY, Hamburg - Germany), David Blaschke (University of Wroclaw - Poland; JINR Dubna and NRNU Moscow - Russia), Miltcho Danailov (Elettra-Sincrotrone, Trieste – Italy), Zhiyi Wei (Institute of Physics, Chinese Academy of Sciences, Beijing - China), Local Organiser: Joseph Niemela Cosponsor(s): Optical Society of America, International Society for Optics and Photonics, International Commission for Optics, European Optical Society, Società Italiana di Ottica e Fotonica, International Society on Optics Within Life Sciences 5 Feb 2018 - 16 Feb 2018, ICTP</p> <p>Titolo corso: H2020: Portale del partecipante, ricerca partner, rendicontazione e audit (2295566.2295573) Data corso: dal 27-03-2018 al 27-03-2018 - Aula Aula Marconi Roma, P.le Aldo Moro 7 Organizzatore: Ufficio Formazione - Ufficio Relazioni Europee e Internazionali</p> <p>2020</p> <p>Titolo corso: Webinar "Epidemiologia e modalità di trasmissione del virus SARS-CoV-2. Misure per il contrasto e la prevenzione nel CNR" (4099223.4157568) Data corso: dal 19-06-2020 al 19-06-2020 - Aula Aula virtuale Webinar - Organizzatore: Unità Formazione e Welfare - Unità Prevenzione e Protezione CNR</p>
Seminars	<p>"Charge transfer molecular aggregates: an insight into optical properties", 20/05/2003, Max-Born Institute, Berlin, Germany.</p> <p>"Nonlinear optical properties of TTF charge transfer nanoaggregates", 02/2000, LAMP seminars, Laser Atomic and Molecular Physics, ICTP, Trieste, Italy.</p> <p>"Third order nonlinearities in submicrometric thin films of metal nanoclusters in silica", 02/2005, LAMP seminars, ICTP Trieste, Italy.</p>
Presentations	<p>"Resonant Raman spectroscopy of charge transfer nanoaggregates", poster, National Seminar of Chemical Physics, 1999, Villa Gualino, Torino, Italy</p> <p>"Nonlinear Refraction and absorption of TTF+. charge transfer nanoaggregates", poster, LANMAT- Interaction of Laser radiation with Matter at Nanoscopic scales: from single molecule to material processing, joint meeting of the European Societies of Physical Chemistry, 3-6 October 2001 Venezia, Italy</p> <p>"Fast nonlinear refractive index and nonlinear absorption of sputtered copper thin films with the ps Z- Scan technique", poster, IV Symposium on SiO₂ and advanced dielectrics, 16-18 September 2002, Trento, Italy</p>
Awards	fellowship for the Seminario Nazionale di Chimica Fisica 1999
Projects (participation)	FAR-OLED 2007-2009: Giuseppe Gigli. NNL, Lecce, 2007-2009

	<p>PRIN 2003: Stefano Polizzi. "Preparation of ibrid organic-inorganic nanocomposites with luminescent properties and their optical, morphological and structural characterization" Chemical Physics Dept., Università Ca' Foscari of Venice</p> <p>PRIN 2002: Francesco Gonella. "Synthesis of nanocomposites by ionic exchange and sputtering and their nonlinear optical characterization" Chemical Physics Dept., Università Ca' Foscari of Venice</p> <p>PRIN 2001: Giancarlo Battaglin. "Synthesis of thin films via RF magnetron sputtering and their characterization by nuclear techniques and photoelectron spectroscopy" Chemical Physics Dept., Università Ca' Foscari of Venice</p> <p>Participation at Startcup Padova 1st edition (2001-2002), with a group composed of two psychologists and a mathematician. The project was about an on-line structured communication program for professional discussions</p>
Collaborations	IOM-CNR, DISC-NOL University of Padova (scientific collaboration 2018-)
Membership in Associations	<p>OSA, Optical Society of America (up to 2013)</p> <p>SIOF, Società Italiana di Ottica e Fotonica-Italian Society of Optics and Photonics (up to 2013)</p> <p>CAI, Club Alpino Italiano 2015-2016</p> <p>Agesci-associazione guide e scout cattolici italiani (in my Youth)</p>
Autorizzo il trattamento dei miei dati personali, ai sensi del D.lgs. 196 del 30 giugno 2003	